

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/051626 A1

(51) International Patent Classification⁷: **B29C 33/38**,
33/56, B29L 11/00, G02B 5/08, C03B 11/08

(21) International Application Number:
PCT/EP2004/053158

(22) International Filing Date:
29 November 2004 (29.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03354086.5 28 November 2003 (28.11.2003) EP

(71) Applicant (for all designated States except US): **XENOC S.A.** [FR/FR]; 19, rue Francois Blumet, F-38360 Sassenage (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HOGHOJ, Peter**

[DK/FR]; 23, Clos Saint Martin, F-38950 Saint Martin Le Vinoux (FR). **SIEBRECHT, Ralf** [DE/FR]; Les Bletières, F-38190 Les Adrets (FR). **RODRIGUES, Sergio** [FR/FR]; 356, rue du Port, F-38340 Voreppe (FR).

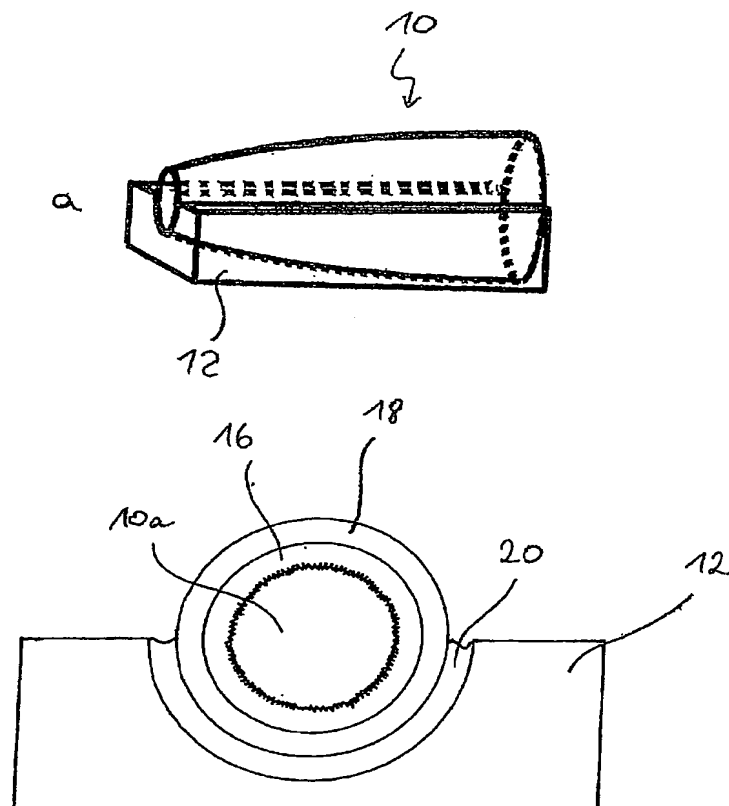
(74) Agent: **Betten & Resch**; Theatinerstr. 8, 80333 Muenchen (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: A METHOD FOR PRODUCING A REPLICATION MASTER, REPLICATION METHOD AND REPLICATION MASTER



(57) Abstract: In a method for producing a replication master (10) having a surface with low roughness, comprising the steps of forming said master (10) such as to have a desired external surface shape corresponding to a counterform of a surface of an object (18, 20) to be produced by replication and treating said external surface of said master (10) to obtain a predetermined surface roughness value, it is proposed that said method furthermore comprises the step of coating at least a part of said master (10) with a soluble smoothening layer (16). The invention further relates to a replication master (10) for producing a smooth object (18, 20) having a low surface roughness, wherein at least a part of said master (10) is coated with a soluble smoothening layer (16).



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.